

HUMAN ANTI-HBS ANTIBODY

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Abstract of JP9020798

PROBLEM TO BE SOLVED: To obtain a new human anti-HBs antibody having specific amino acid sequences at the CDR-1 of the H-chain variable region and at the CDR-2 of the L-chain variable region, respectively, capable of combining with adr type HBs antigens and useful for preventing the crisis of B type hepatitis due to adr type HB viruses, etc. **SOLUTION:** The new human anti-HBs monoclonal antibody has an amino acid sequence of formula I and an amino acid sequence of formula II at the CDR-1 of the H chain variable region and at the CDR-2 of the L-chain variable region, respectively, can combine with an adr type HBs antibody, is effective for preventing the crisis of B type hepatitis due to adr type HB viruses, and can safely be administered into human bodies. The monoclonal antibody is obtained by administering a B type hepatitis vaccine produced from a yeast by a recombinant DNA technology into a healthy man, collecting the blood from the man after the increase of the antibody value, and further performing the following processes: the preparation of a monocaryosphere-originating cDNA, the preparation of variable region base sequences by PCR, the production of a human antibody-expressing library, the screening the library, the recovery of a plasmid, and the expression of the gene.

(Ser/Asp)-His-Gly-Met-His

I

Ala-Ala-Ser-Ser-Leu-Gln-Ser

II

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